

IN THE CLAIMS:

Please amend Claims 1, 5, and 7 as shown below.

1. (Currently Amended) A gate driving circuit comprising:
 - a direct current power source;
 - a driving signal source for outputting a high-level or low-level signal;
 - a main switch device, having a gate terminal in which the signal outputted from the driving signal source is inputted, for controlling a conduction state between a source terminal and a drain terminal in correspondence with a level of the signal;
 - a load energized when the conduction state between the source terminal and the drain terminal becomes a conductive state;
 - reverse current blocking means, connected between the driving signal source and the gate terminal, for outputting a signal only in a direction from the driving signal source to the gate terminal; and
 - regenerative means, connected between the gate terminal and a high potential side of the direct current power source, which becomes ~~the~~ a conductive state when the conduction state between the source terminal and the drain terminal is a non-conductive state,
wherein a gate-source threshold voltage to obtain the conductive state between the source terminal and the drain terminal is higher than an output voltage of the direct current power source.

2. (Original) The gate driving circuit according to claim 1, wherein the main

switch device includes an N-channel MOSFET or an N-channel IGBT.

3. (Original) The gate driving circuit according to claim 1, wherein the reverse current blocking means includes a diode.

4. (Original) The gate driving circuit according to claim 1, wherein the regenerative means includes a MOSFET.

5. (Currently Amended) A power source circuit comprising:
a gate driving circuit having: a direct current power source; a driving signal source for outputting a high-level or low-level signal; a main switch device, having a gate terminal in which the signal outputted from the driving signal source is inputted, for controlling a conduction state between a source terminal and a drain terminal in correspondence with a level of the signal; a load energized when the conduction state between the source terminal and the drain terminal becomes a conductive state; reverse current blocking means, connected between the driving signal source and the gate terminal, for outputting a signal only in a direction from the driving signal source to the gate terminal; and regenerative means, connected between the gate terminal and a high potential side of the direct current power source, which becomes the a conductive state when the conduction state between the source terminal and the drain terminal is a non-conductive state,

wherein in the gate driving circuit, a gate-source threshold voltage to obtain the conductive state between the source terminal and the drain terminal is higher than an

output voltage of the direct current power source,
and wherein when the conduction state between the source terminal and
the drain terminal becomes the conductive state, the output voltage from the direct current power
source is supplied to the load.

6. (Original) The power source circuit according to claim 5, wherein the load
includes a primary-side coil of a transformer.

7. (Currently Amended) The power source circuit according to claim 5, ~~to~~
~~perform wherein the power source circuit performs~~ DC/AC conversion.

8. (Original) The power source circuit according to claim 5, wherein the
direct current power source includes plural solar cells which are not serially connected.